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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/772,887	02/04/2004	Thor Itt Chiam	FLEX-00300	5368
28960	7590	02/08/2008		
HAVERSTOCK & OWENS LLP			EXAMINER	
162 N WOLFE ROAD			DESIR, PIERRE LOUIS	
SUNNYVALE, CA 94086			ART UNIT	PAPER NUMBER
			2617	
			MAIL DATE	DELIVERY MODE
			02/08/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/772,887	Applicant(s) CHIAM ET AL.	
	Examiner Pierre-Louis Desir	Art Unit 2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 November 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-26 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-26 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 11/16/2007 has been entered.

Response to Arguments

2. Applicant's arguments with respect to claims 1-26 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-15 and 17-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamadera (previously cited) in view of Miramontes, Pub. No. US 20020072395.

Regarding claim 1, Yamadera discloses a menu-driven electronic device (Figure 1) comprising:

a. a display configured to selectively display one of a plurality of menus (Figure 1, element 10),

including a main menu and a sub-menu (Figures 7A to 7D) and

b. a two-dimensional navigation key including four sets of contact points (Figure 1, element 4), wherein the two dimensional navigation key is configured to select one of a plurality of main menu items of the main menu (paragraphs 42 and 59 to 63 and 76 to 82) and to select and perform an action corresponding to a sub-menu item of the sub-menu associated with a selected main menu item (Id.).

Although Yamadera discloses a device as described, Yamadera does not specifically disclose a device wherein the four sets of contact points are used to select and perform an action corresponding to one of a plurality of main menu items.

However, Miramontes discloses a device wherein navigational buttons 4 allow the user to select options on a menu and activate various programs, such as telephone and text communications enabling programs, and wherein an arrow is provided on each of the navigational buttons, the arrows representing up, down, left, and right. The left and right buttons double as "Send" and "On/Off", respectively (see paragraph 24).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings as described by the cited references to arrive at the claimed invention. A motivation for doing so would have been to provide a device wherein it is faster and more convenient than finding and pressing a separate enter button.

Regarding claim 18, Yamadera a menu-driven wireless telecommunications device (Figure 1) comprising:

a. a display configured to selectively display one of a plurality of menus (Figure 1, element 10), including a main menu and a sub-menu (Figures 7A to 7D), and

b. a two-dimensional navigation key including four sets of contact points (Figure 1, element 4), wherein the two dimensional navigation key is configured to select one of a plurality of main menu items of the main menu (paragraphs 42 and 59 to 63 and 76 to 82) and to select and perform an action corresponding to a sub-menu item of the sub-menu associated with a selected main menu item (Id.), wherein the device displays a plurality of sub-menu items (Id.).

Although Yamadera discloses a device as described, Yamadera does not specifically disclose a device wherein the four sets of contact points are used to select and perform an action corresponding to one of a plurality of main menu items.

However, Miramontes discloses a device wherein navigational buttons 4 allow the user to select options on a menu and activate various programs, such as telephone and text communications enabling programs, and wherein an arrow is provided on each of the navigational buttons, the arrows representing up, down, left, and right. The left and right buttons double as "Send" and "On/Off", respectively (see paragraph 24).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings as described by the cited references to arrive at the claimed invention. A motivation for doing so would have been to provide a device wherein it is faster and more convenient than finding and pressing a separate enter button.

Regarding claim 23, Yamadera discloses a menu-driven wireless telecommunications device (Figure 1) comprising:

- a. a display configured to selectively display at least one of a plurality of menus (Figure 1, element 10), including a main menu and a first sub-menu (Figures 7a to 7D), and
- b. a two-dimensional navigation key including four sets of contact points (Figure 1, element 4),

wherein the two-dimensional navigation key is configured to select and perform corresponding to one of a plurality of main menu items of the main menu (paragraphs 42, 59 to 63 and 76 to 82), to select and perform an action corresponding to a first sub-menu associated with a selected main menu item (Id.), and further to select and perform an action corresponding to a second sub-menu item of the second sub-menu associated with the selected main menu item (Id.).

Although Yamadera discloses a device as described, Yamadera does not specifically disclose a device wherein the four sets of contact points are used to select and perform an action corresponding to one of a plurality of main menu items.

However, Miramontes discloses a device wherein navigational buttons 4 allow the user to select options on a menu and activate various programs, such as telephone and text communications enabling programs, and wherein an arrow is provided on each of the navigational buttons, the arrows representing up, down, left, and right. The left and right buttons double as "Send" and "On/Off", respectively (see paragraph 24).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings as described by the cited references to arrive at the claimed invention. A motivation for doing so would have been to provide a device wherein its is faster and more convenient than finding and pressing a separate enter button.

Regarding claim 2, Yamadera discloses a device (see claim 1 rejection) wherein at least a portion of the plurality of main menu items is displayed (Figure 1), and further wherein both the main menu and the sub-menu can be accessed by maintaining contact with the two-dimensional key. See paragraphs 60 and 62, it would be inherent that a user could navigate through the menus by maintaining contact with the navigation keys.

Regarding claim 3, Yamadera discloses a device (see claim 1 rejection) wherein the device is configured to allow navigation through the plurality of menus by using the two-dimensional navigation key. Id.

Regarding claim 4, Yamadera discloses a device (see claim 1 rejection) wherein the device is configured to allow navigation through the plurality of menus while maintaining tactile contact with the two-dimensional navigation key. See claim 2 and 3.

Regarding claim 5, Yamadera discloses a device (see claim 1 rejection) wherein the device is configured to allow toggling among the at least two control levels by a single access of the two-dimensional navigation key. See paragraphs 60 to 63.

Regarding claim 6, Yamadera discloses a device (see claim 1 rejection) wherein the device is configured to allow toggling between the main menu and one of the plurality of main menu items by using a first direction of the two-dimensional navigation key and to allow toggling between the selected main menu item and the sub-menu associated with the selected main menu item by using a second direction of the two-dimensional navigation key. See e.g. paragraph 64.

Regarding claim 7, Yamadera discloses a device (see claim 1 rejection) wherein the device is configured to allow scrolling among at least two control levels by a single access of the two-dimensional navigation key. See paragraphs 60 to 64.

Regarding claim 8, Yamadera discloses a device (see claim 1 rejection) wherein the device is configured to display the selected main menu item simultaneously with the sub-menu associated with the selected main menu item. See Figure 7B and its corresponding description.

Regarding claim 9, Yamadera discloses a device (see claim 1 rejection) wherein the

device is configured to display the selected main menu item simultaneously with a plurality of sub-menu items associated with the selected main menu item. See Figure 7B and its corresponding description.

Regarding claim 10, Yamadera discloses a device (see claim 1 rejection) wherein the plurality of menus are organized in a menu tree. See Figure 2.

Regarding claim 1, Yamadera discloses a device (see claim 1 rejection) wherein the main menu further comprises a main menu item icon representing a main menu item. See Figure 7A and its corresponding description.

Regarding claim 12, Yamadera discloses a device (see claim 11 rejection) wherein the device is configured to display the main menu item icon to provide a visual reference to an item in the menu tree of the menu being displayed. See Figures 7A-D and their corresponding descriptions.

Regarding claim 13, Yamadera discloses a device (see claim 12 rejection) wherein when the device displays at least a portion of the main menu, the main menu item icon is displayed in a first appearance, and when the device displays the sub-menu, the main menu item icon is displayed in a second appearance different from the first appearance. See Figures 7A-7C and their corresponding descriptions.

Regarding claim 14, Yamadera discloses a device (see claim 13 rejection) wherein the first appearance differs from the second appearance by at least one of size, shape, color, highlighting, and pattern. Id.

Regarding claim 15, Yamadera also teaches all the elements of dependent claim 15, except wherein when the device displays the sub-menu, the main menu item icon is displayed in

a third size different from the first size and the second size. However, see MPEP 2144, changing the size of an element of the claimed invention does not patentably distinguish the claimed invention. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to change the size of the main menu icon to various sizes, including a different size than either the first or second size.

Regarding claim 17, Yamadera discloses a device (see claim 1 rejection) wherein the device is a phone. See Figure 1 and its corresponding description.

Regarding claim 19, Yamadera discloses a device (see claim 18 rejection) including wherein when the device displays on the display the sub-menu associated to the selected main menu item, a main menu icon is displayed in the sub-menu to provide a visual reference to the selected main menu item in the menu tree of the menu being displayed. See Figures 7A to 7D and their corresponding descriptions.

Regarding claim 20, Yamadera discloses a device (see claim 18 rejection) including wherein the plurality of menus includes a first sub-menu and a second sub-menu (Figures 7A-D and their corresponding descriptions), wherein the first sub-menu further comprises a plurality of first sub-menu items (Id.) and further wherein one of the plurality of first sub-menu items is associated to a second sub-menu (Id.).

Regarding claim 21, Yamadera discloses a device (see claim 20 rejection) including wherein the second sub-menu further comprises a plurality of second sub-menus items. Figures 7A-D and their corresponding descriptions.

Regarding claim 22, Yamadera discloses a device (see claim 21 rejection) wherein a third orientation of the two-dimensional navigation key is configured to select one of the plurality of

second sub-menu items. See paragraphs 77 to 81.

Regarding claim 24, Yamadera discloses a device (see claim 23 rejection) wherein the device is configured to allow scrolling between the main menu and one of the plurality of main menu items by using a first direction of the two-dimensional navigation key (paragraphs 76 to 77), to allow scrolling between the selected main menu item and the first sub-menu associated with the selected main menu item by using a second direction of the two-dimensional navigation key (Id.), and further to allow scrolling between the second sub-menu associated with the selected main menu item and a second sub-menu item by using a third direction of the two-dimensional navigation key (paragraphs 78 to 79).

Regarding claim 25, Yamadera discloses all the elements of dependent claim 25, except wherein the third direction corresponds with the first direction of the two-dimensional navigation key. However, it would have been obvious to one of ordinary skill in the art at the time the invention was made to understand that the directions used to select the first and third directions could be the same because Yamadera teaches that the first direction may be up and the third direction may be pointed in any of four directions, up, down, right, or left. See Yamadera, paragraph 78.

Regarding claim 26, Yamadera discloses a device (see claim 23 rejection), including wherein the device is configured to display a main menu item icon to provide a visual reference to an item in a menu tree of the menu being displayed. See Figures 7A-D.

5. Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yamadera and Miramontes, further in view of U.S. Patent No. 6,463,304 to Smethers.

Yamadera also teaches all the elements of dependent claim 16, except wherein the main menu further comprises a non-graphical listing of the plurality of sub-menu items of the sub-menu associated with the selected main menu item.

However, Smethers, in the same field of endeavor teaches the use of non-graphical listings in addition to icons. See e.g. Figure 3B:

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use non-graphical listings in the sub-menus, for example because a listing of "content channels" is more efficient than attempting to describe them using icons, as in Smethers. See column 6, lines 35 to 45.

Conclusion


6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pierre-Louis Desir whose telephone number is (571) 272-7799. The examiner can normally be reached on Monday-Friday 8:00AM- 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Feild can be reached on (571) 272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Pierre-Louis Desir
01/31/2008

JEAN GELIN
PRIMARY EXAMINER

